To: Deschambault, Lynda[Deschambault.Lynda@epa.gov]

Cc: DCarey@waterboards.ca.gov[DCarey@waterboards.ca.gov]; Chris Stetler

(chris.stetler@waterboards.ca.gov)[chris.stetler@waterboards.ca.gov]; Greg

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Grant Ohland - (gohland@ohlandhydrogeo.com)[gohland@ohlandhydrogeo.com]

From: Lombardi, Marc

Sent: Fri 8/4/2017 11:19:46 PM

Subject: RE: Leviathan Mine - Hazardous Conditions Response Plan - Crusher Road Slope Instability -

Lifting of Exclusion Zone Requirements for AR Workforce

20170804 075125.jpg

Lynda,

The purpose of this email is to notify the U.S. EPA that we have lifted the exclusion zone requirements that were put in place by Atlantic Richfield for our workforce in response to the Crusher Road slope instability at the Leviathan Mine. The exclusion zone requirements were detailed in Atlantic Richfield's *Hazardous Conditions Response Plan – Crusher Road Slope Instability Memo*, dated May 3, 2017.

Based on the current state of the slope repair being conducted by the Lahontan Regional Water Quality Control Board (LRWQCB), the ongoing survey monitoring data which has shown no further movement, and the visual observations which indicate that no appreciable slope movement has occurred since approximately June 9, 2017, Atlantic Richfield has lifted the Hazardous Conditions Exclusion Zone requirements associated with the Crusher Slope Instability and we have re-opened the affected section of road by Pond 4 to Atlantic Richfield traffic effective August 4, 2017.

The LRWQCB's contractor has made considerable progress on the slope repair. As of this morning, the construction at the toe of the slump appears substantially complete, including construction of the subdrains, rip-rap, and the road base section along the access road (see attached picture). According to the LRWQCB, remaining construction includes placement of rip-rap on the upper portion of the slope, excavation and backfilling of the tension cracks at the top of the slope and placement of the HDPE liner along the backside of the Crusher Road. As indicated, the survey data indicates no additional movement to date, and the water levels have decreased over ten feet in the wells upslope of the failure area. In addition to lifting the exclusion zone requirement, we are also reducing the slope survey monitoring frequency from three- to two-times per week until the LRWQCB completes their construction. We will continue to provide the LRWQCB with the results of the monitoring as they are received.

Should you have any questions or comments please contact Tony Brown at (657) 529-4537 or anthony.brown@bp.com.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

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From: Lombardi, Marc

Sent: Wednesday, May 03, 2017 2:02 PM

To: Lynda Deschambault (deschambault.lynda@epa.gov) <deschambault.lynda@epa.gov>

Cc: DCarey@waterboards.ca.gov; Chris Stetler (chris.stetler@waterboards.ca.gov) <chris.stetler@waterboards.ca.gov>; Greg Reller <gr@burlesonconsulting.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>; Cohen, Adam <Adam.Cohen@dgslaw.com> Subject: FW: Leviathan Mine - Hazardous Conditions Response Plan - Crusher Road Slope

Instability

Importance: High

Lynda,

Attached for your information is the Hazardous Condition Response Plan (Response Plan) that Atlantic Richfield has implemented for its workforce at the Leviathan Mine Site

in response to the Crusher Road Slope Instability. The Response Plan identifies measures to moderate the potential risks to site personnel while the described hazardous conditions persist. Implementation of this Response Plan is not materially affecting HDS plant spring commissioning and RI field work at this time, although progress on construction of the Upper Ponds Conveyance System will continue to be temporarily delayed until the California access road is cleared. HDS operations could be impacted if there is additional slope movement or other changed conditions. Atlantic Richfield is also preparing a slope movement monitoring plan, which will be forwarded to you once it is ready. We will coordinate with the Water Board before installing any monitoring points on the slope above Pond 4. Monitoring results will be evaluated to ensure the continued protection of site personnel.

If you have any questions please contact Tony Brown at (657) 529-4537 or anthony.brown@bp.com.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

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From: Lombardi, Marc

Sent: Wednesday, May 03, 2017 1:03 PM

To: Brown, Anthony R (RM) < anthony.brown@bp.com >; 'phil thompson'

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Subject: Leviathan Mine - Hazardous Conditions Response Plan - Crusher Road Slope
Instability
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Importance: High

Team,

Attached is a Hazardous Conditions Response Plan for the recent Crusher Road Slope Instability. Please cascade to all applicable Leviathan Mine personnel and subcontractors. All site personnel should be familiarized with and follow this plan until further notice.

Please contact Tony Brown or myself with any questions.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

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